MA2YF80

Silicon epitaxial planar type

For high speed switching circuits
For strobe light circuits (high voltage rectification)

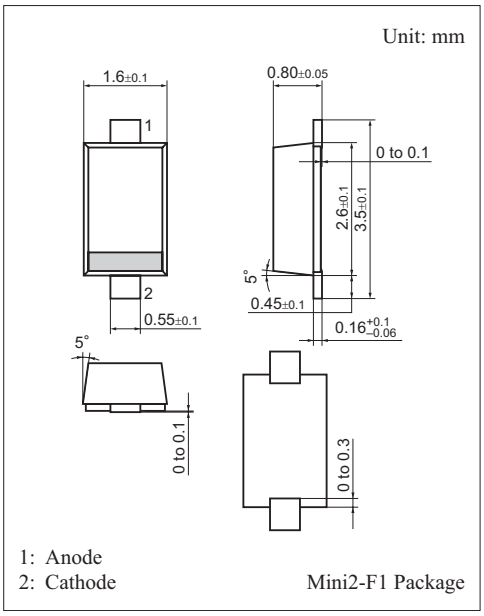
■ Features

- High repetitive peak reverse voltage V_{RRM}
- Short reverse recovery time t_{rr}

■ Absolute Maximum Ratings $T_a = 25°C$

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	800	V
Non-repetitive peak reverse surge voltage	V_{RSM}	800	V
Forward current	I_F	200	mA
Non-repetitive peak forward surge current *	I_{FSM}	1	A
Junction temperature	T_j	–40 to +150	°C
Storage temperature	T_{stg}	–40 to +150	°C

Note) *: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

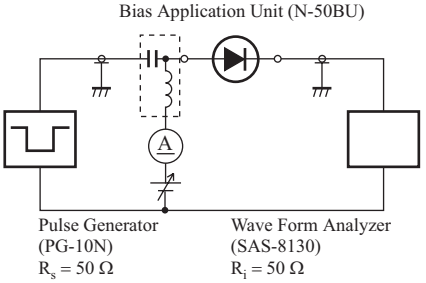


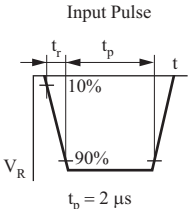
Marking Symbol: HB

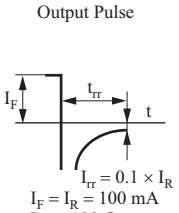
■ Electrical Characteristics $T_a = 25°C \pm 3°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 200$ mA			2.5	V
Reverse current	I_{RRM1}	$V_{RRM} = 400$ V			1	μA
	I_{RRM2}	$V_{RRM} = 800$ V			20	
Terminal capacitance	C_t	$V_R = 0$ V, f = 1 MHz		2		pF
Reverse recovery time *	t_{rr}	$I_F = 100$ mA, $I_R = 200$ mA $I_{rr} = 20$ mA, $R_L = 100\ \Omega$		20	45	ns

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
3. *: t_{rr} measurement circuit







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